

004583-032490

REPLACEMENT
AS A RESULT OF
REVERSE
TRANSCRIPTION
OF VECTOR RNA

IRRELEVANT SEQUENCE
REPLACEMENT
MUTATION OF
ENHANCER AND
PROMOTER

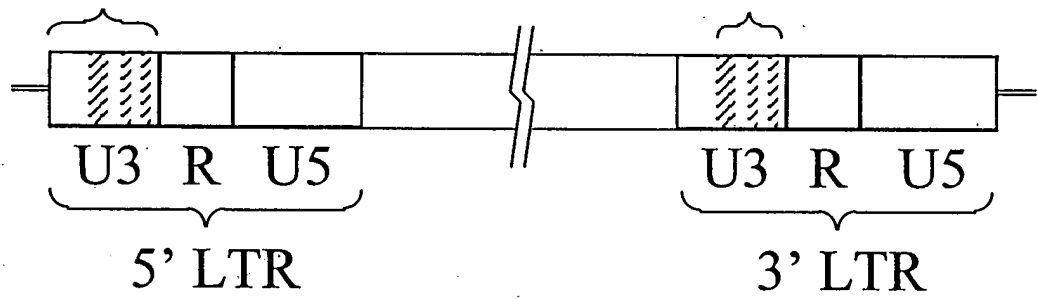


Figure 1

004683 032498

Wild type 3' LTR sequence:

1 GAACAGATGG AACAGCTGAA TATGGGCCAA ACAGGATATC TGTGG TAAGC
51 AGTTCC TGCC CCGGCTCAGG GCCAAGAACA GATGGAACAG CTGAATATGG
101 GCCAAACAGG ATATCTGTGG TAAGCAGTTC CTGCCCCGGC TCAGGGCCAA
151 GAACAGATGG TCCCCAGATG CGGTCCAGCC CTCAGCAGTT TCTAGAGAAC
201 CATCAGATGT TTCCAGGGTG CCCCAAGGAC CTGAAATGAC CCTGTGCCTT
251 ATTTGAACTA ACCAATCAGT TCGCTTCTCG CTTCTGTTCG CGCGCTTCTG
301 CTCCCCGAGC TCAATAAAA

Corresponding modified 3' LTR sequence from pENZ1
(modified sequences in bold italics):

1 *ACGCTTGATC CGGCTACCTG CCCATTGAC CACCAAGCGA AACATCGCAT*
51 *CGAGCGAGCA CGTACTCGGA TGAAGCCGG TCTGTGCGAT CAGGATGATC*
101 *TGGACGAAGA GCATCAGGGG CTCGCGCCAG CCGAACTGTT CGCCAGGCTC*
151 *AAGGCGCGCA TGCCCGACGG CGAGGATCTC GTCGTGACTT TCTAGAGAAC*
201 CATCAGATGT TTCCAGGGTG CCCCAAGGAC CTGAAATGAC CCTGTGCCTT
251 ATTTGAACTA ACCGGTCAGT TCGCTTCTCG CTTCTGTTCG CGCGCTTCTG
301 CTCCCCGAGC *TCAGCTGCG*

Figure 2

00046832 032498

REPLACEMENT
AS A RESULT OF
REVERSE
TRANSCRIPTION
OF VECTOR RNA

IRRELEVANT
SEQUENCE
REPLACEMENT
MUTATION OF
ENHANCER

H2A614 STEM LOOP
REPLACEMENT
MUTATION OF
PROMOTER

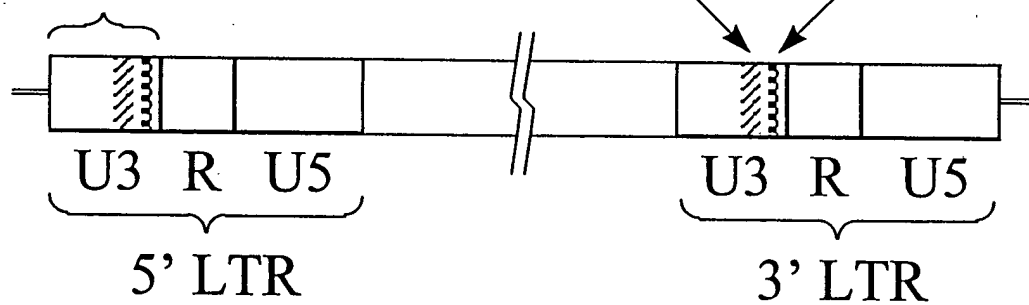


Figure 3

2042E0-EE894060

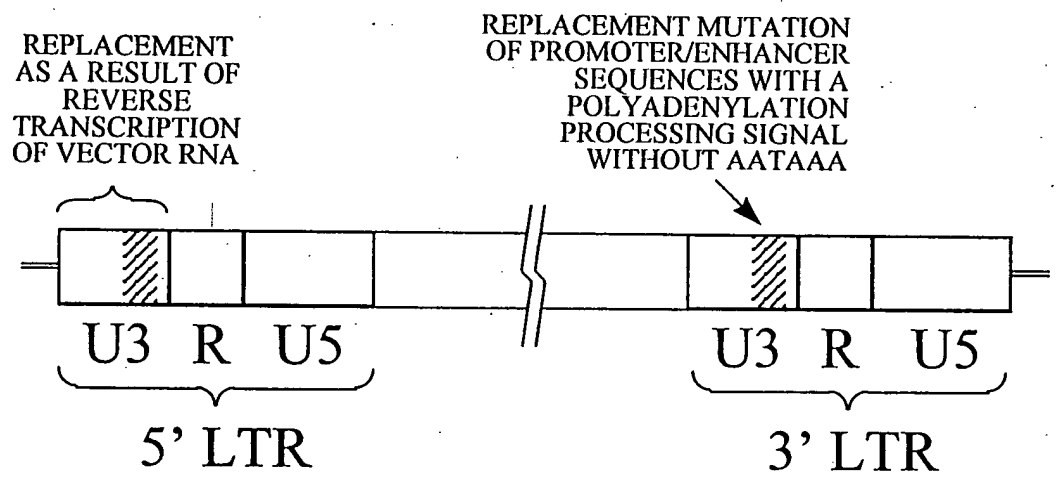


Figure 4

864220" EE894060

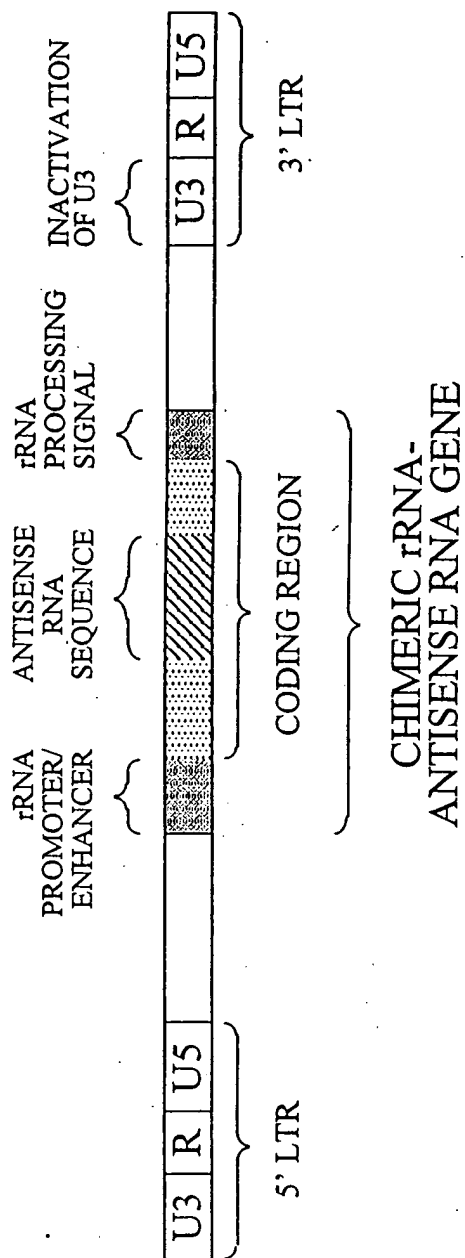


Figure 5

864220" EE894060

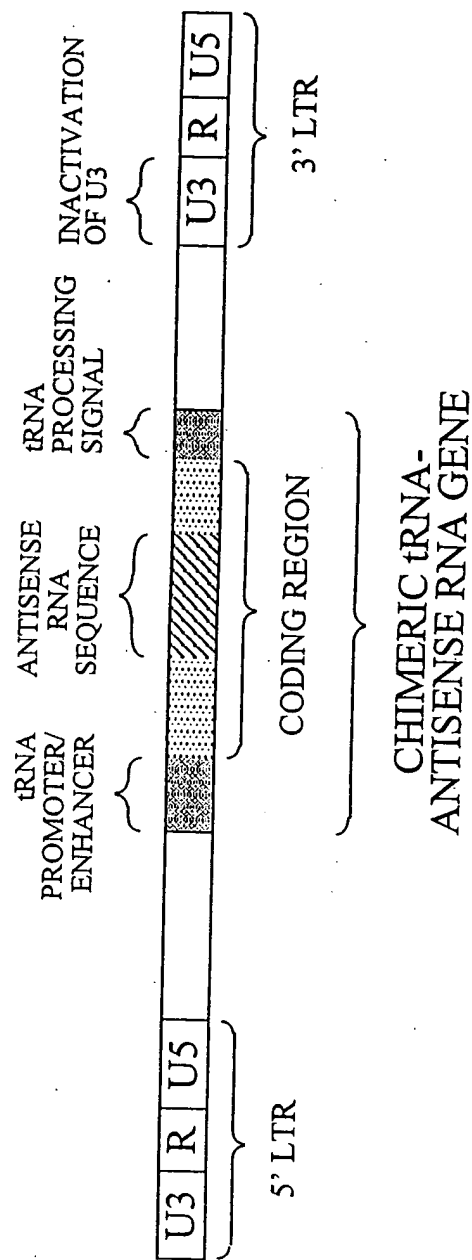


Figure 6



864260-EE894060

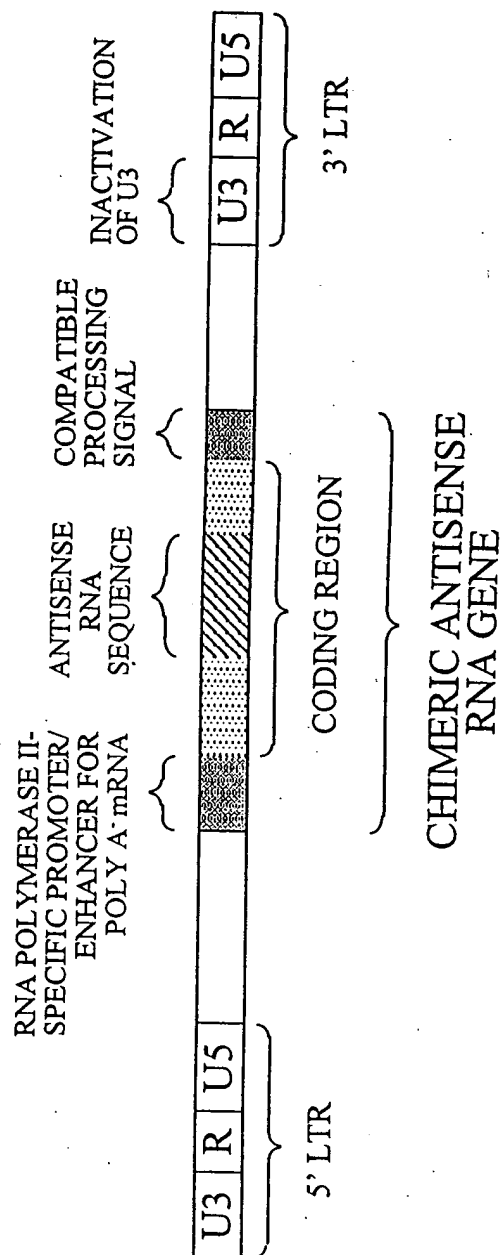


Figure 7

0004637-03894050

Vector DNA
Construct Transfected
into Packaging Cell

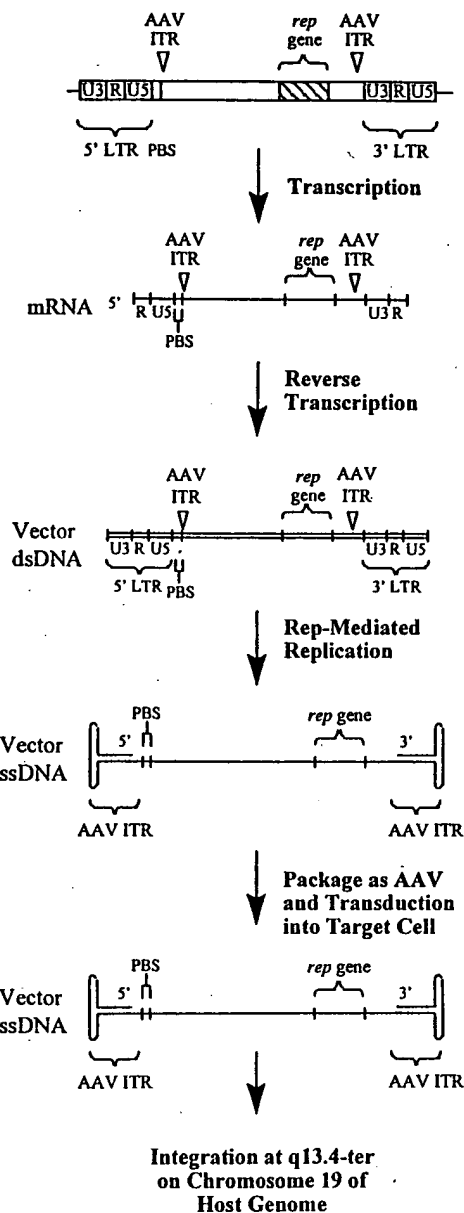


Figure 8

09046833-032498

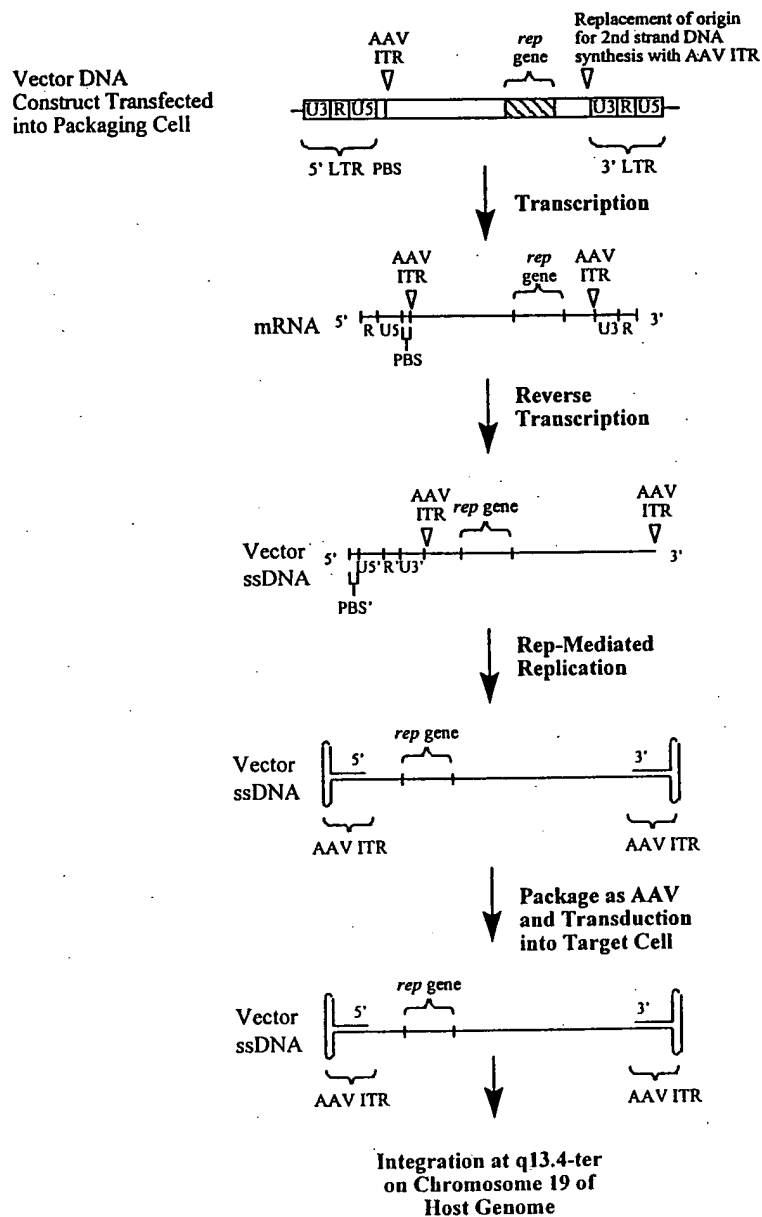


Figure 9

0904633-032490

Vector DNA Construct
Transfected into
Packaging Cell

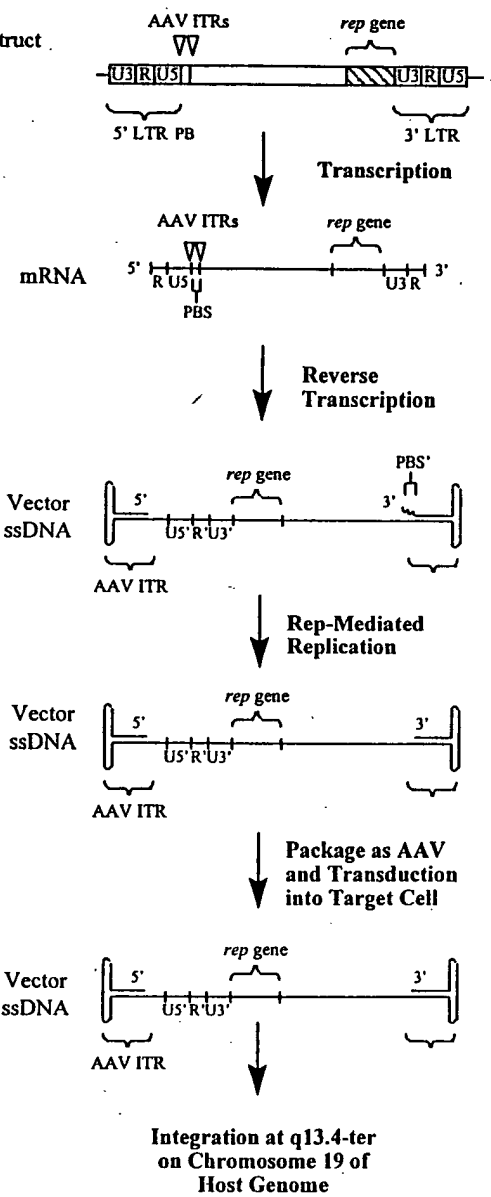


Figure 10

0004633-0324960

Vector DNA
Construct Transfected
into Packaging Cell

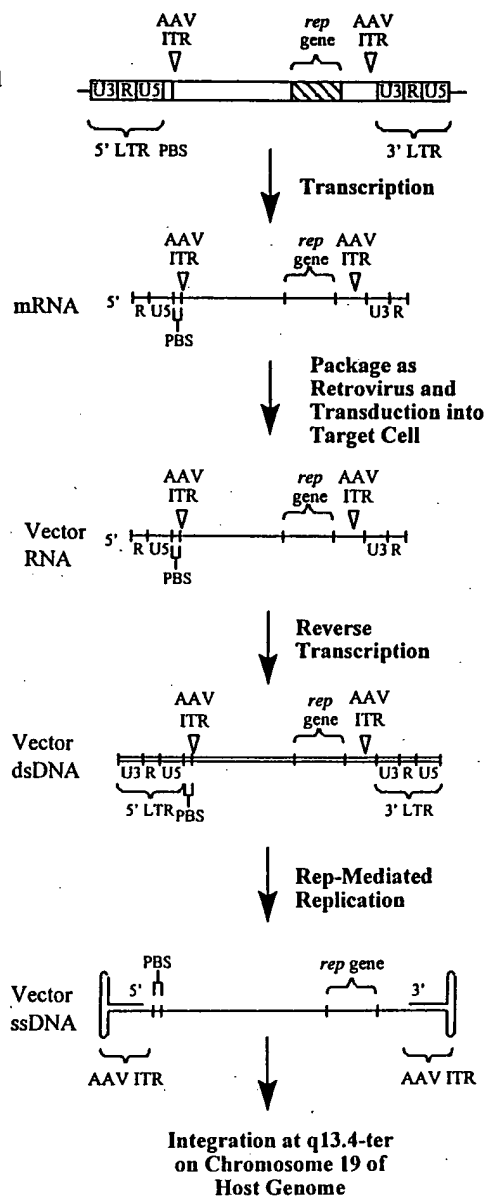


Figure 11

09046833-032490

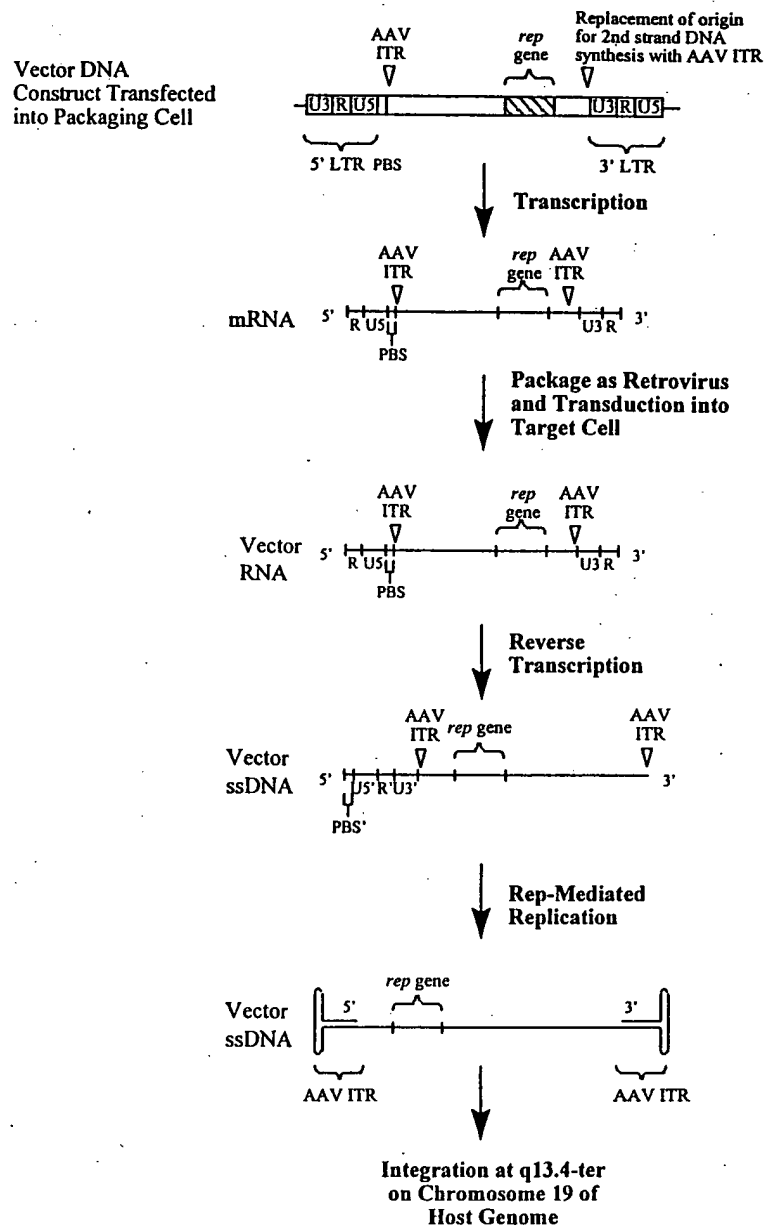


Figure 12

09046833-032493

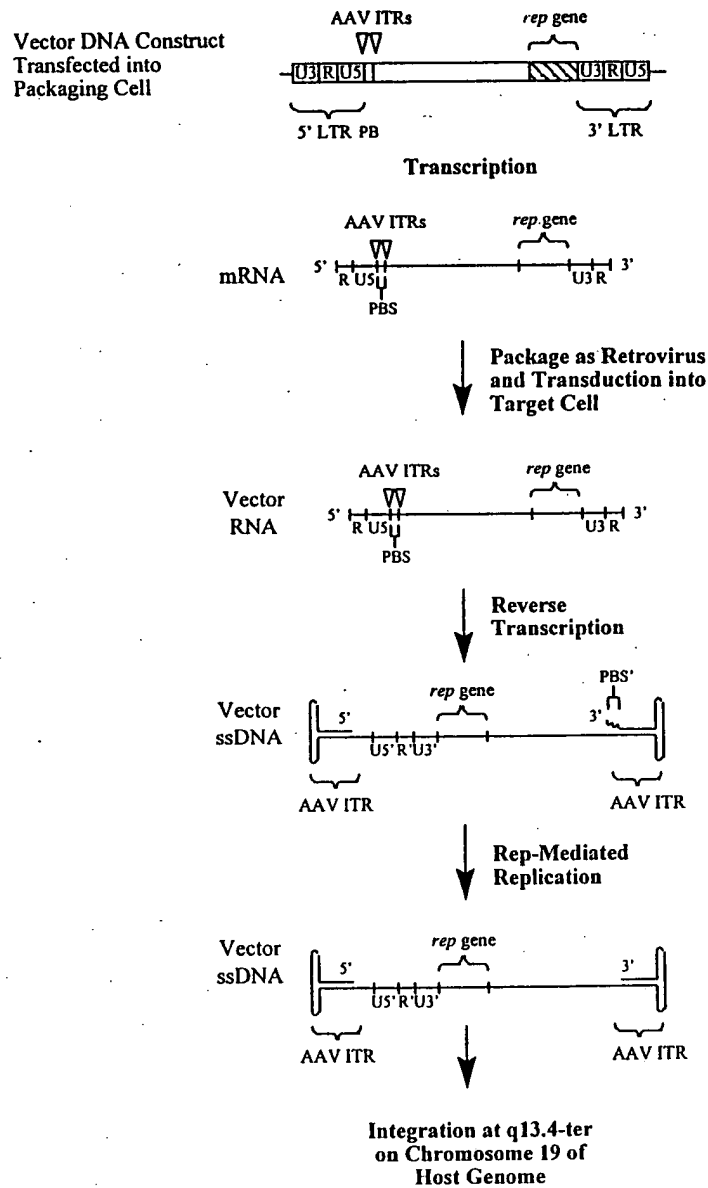


Figure 13